# Roadway Flooding Sensors

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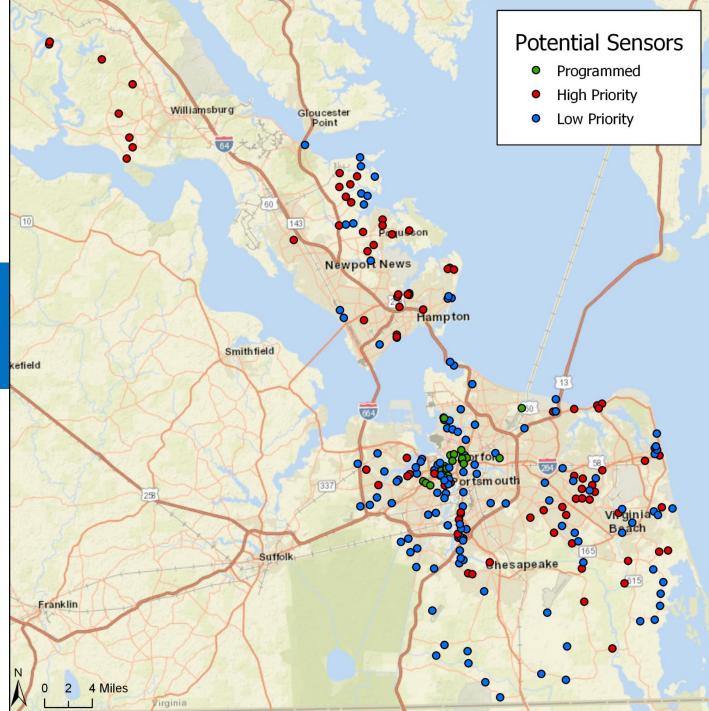
### **Regional Network of Sensors**

➤ Measure roadway flooding and provide real-time drivers.

➤ Deliver data to drivers about observed flooding with Waze.

Sensor data will be made available to localities, state agencies, DoD, universities, etc for research or to create alerts or other tools.





Number of sites:
97 High
122 Low

#### **Current Status**

- HRPDC received 10 responses to the RFI in August 2019.
- ➤ HRPDC issued RFP and received 6 responses in June 2020. Selection panel includes representatives from Norfolk, VIMS, USGS, ODU and HRPDC.
- Recommend awarding the contract to Xylem.

Estimated cost for 20 sensor pilot project = \$207K

Estimated cost for total 200 sensor project = \$1.25M

Cost includes equipment, installation, data management and O&M for 5 years.



## **Funding Options**

Estimated cost for 20 sensor pilot project = \$207K

#### **Funding Proposal:**

- ➤ Apply for DoD Office of Economic Adjustment Implementation Grant.
  - □ \$75K (only data/O&M) to \$187K (90% total)
    - OEA property management standards or NEPA might not be worth full funding. 10% match required.
- > HRSD contributes \$25K.
- > HRPDC Coastal Resiliency Project Fund provides \$108K plus contingency, if needed.
  - \$170K currently in Project Fund